

AMENDMENTS TO CLAIMS

The status of all claims and the text of pending claims, with markings to show current changes relative to the immediately prior version, follows.

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1. (Currently Amended) A multiple stage brush seal adapted to restrict a fluid flow through a gap between a first component and a second component, comprising:
- a body;
  - a plurality of brush packs secured to said body; and
  - a plurality of passageways through said body for introducing a cooling flow to said gap, said passageways each having a first end that is exposed to said gap and corresponding to a respective one of said brush packs, and a second end that is not exposed to said gap.
2. (Original) The brush seal of claim 1, wherein said body comprises a side plate and a backing plate, and said passageway extends through said side plate.
3. (Original) The brush seal of claim 2, wherein said side plate includes a windage cover, said passageway extending through said windage cover.
4. (Original) The brush seal of claim 1, wherein said first end is adjacent said brush pack.
5. (Cancelled)

6. (Currently Amended) The brush seal of claim 1, in combination with said first component, wherein said first component also has a passageway therethrough in communication with said second ends of said passageways of said brush seal.

7. (Original) The combination of claim 6, wherein said first component comprises a stationary component.

8. (Original) The combination of claim 7, wherein said first component comprises a stationary component of a gas turbine engine.

9. (Currently Amended) An apparatus, comprising:

a first component;

a second component;

a brush seal mounted on said first component and contacting said second component, wherein said brush seal inhibits a fluid flow from passing between said first component and said second component; and

an opening in said second component for discharging a cooling flow to said brush seal, said cooling flow discrete from said fluid flow.

10. (Original) The apparatus of claim 9, wherein the apparatus is a gas turbine engine.

11. (Original) The apparatus of claim 10, wherein another component of said gas turbine engine supplies said cooling flow to said opening.

12. ((Original)) The apparatus of claim 11, wherein said another component comprises a compressor.
13. (Cancelled)
14. (Currently Amended) The apparatus of claim ~~13~~<sup>12</sup>, wherein said second component is a rotating component.
15. (Cancelled)
16. (Currently Amended) The apparatus of claim ~~15~~<sup>14</sup>, wherein said first component is a stationary component.
17. (Original) The apparatus of claim 9, wherein said cooling flow has a temperature lower than said fluid flow.
18. (Currently Amended) A method of cooling a brush seal, comprising the steps of:  
providing a brush seal, first component and second component;  
placing mounting said brush seal between to said first component and so that said brush seal  
contacts said second component, wherein said second component to brush seal inhibits a fluid flow from  
passing therebetween said first and second components; and  
supplying a cooling flow through an opening in said second component to said brush seal, said  
cooling flow discrete from said fluid flow.
19. (Cancelled)

20. (Original) The method of claim 19, wherein said first component is a stationary component.
21. (Cancelled)
22. (Currently Amended) The method of claim ~~24~~18, wherein said second component is a rotating component.
23. (Original) The method of claim 18, wherein said cooling flow has a lower temperature than said fluid flow.
24. (Original) The method of claim 18, wherein said cooling flow is discrete from said fluid flow before said supplying step.
25. (Original) The method of claim 18, wherein said brush seal includes a brush pack and said supplying step supplies said cooling flow to said brush pack.
26. (New) The brush seal of claim 4, wherein said first end is upstream of said brush pack.
27. (New) The apparatus of claim 14, wherein said rotating component comprises a shaft.
28. (New) The apparatus of claim 27, wherein said shaft comprises an outer wall and a hollow interior, and said opening extends through said outer wall.

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29. (New) The apparatus of claim 9, wherein said brush seal contacts said second component at an interface, said opening located upstream of said interface.

30. (New) The method of claim 18, wherein said brush seal contacts said second component at an interface, and said supplying step provides said cooling flow upstream of said interface.

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